



UNIVERSITY OF EDUCATION, WINNEBA
INSTITUTE FOR TEACHER EDUCATION AND
CONTINUING PROFESSIONAL DEVELOPMENT
(ITECPD)



END-OF-SECOND-SEMESTER EXAMINATION (August 2021)

COURSE CODE: EGS 246

COURSE TITLE: INTEGRATED SCIENCE II FOR EARLY GRADE

TIME ALLOWED: 50 MINUTES

STUDENT'S INDEX NUMBER:

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- This paper is made up of ONE SECTION.
- Section ONE is made up of four essay type questions.
- Answer TWO questions in your answer booklet.
- Each question carries equal marks. You are expected to start each question from a new page.
- You are expected to handover your answer booklet to the invigilator before you leave the examination hall.

SECTION ONE

1. a) Define the following:
- i) first class lever (1mark)
 - ii) second class lever (1mark)
 - iii) third class lever (1mark)
- b) Give two examples each for i, ii and iii above. (6 marks)
- i) Give one example of body building food (1 mark)
2. a) Explain the following:
- i) Parallel connection of a battery (2marks)
 - ii) Series connection of a battery (2marks)
- b) Draw circuit symbols for the following electronic components
- i) A cell (1mark)
 - ii) Battery (1mark)
 - iii) A capacitor (1mark)
 - iv) A resistor (1 mark)
- c) Define resistance (2 marks)

3. a) State five food substances and their functions in the human body (5marks)

b) Describe an experiment you will use in an Early Grade classroom to show that sunlight is necessary for the process of photosynthesis. (5 marks)

4. a) Differentiate between a battery and a cell. (2marks)

b) State the energy transformation in the following electronic components when in a closed circuit.

i) Battery (2 marks)

ii) Capacitor (2 marks)

c) what is e-waste (2 marks)

d) Explain two effective ways of managing e-waste (2marks)

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